

&lt;!--StartFragment--&gt;RESULT 15

AAE29399

ID AAE29399 standard; protein; 145 AA.

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AC AAE29399;

XX

DT 27-JAN-2003 (first entry)

XX

DE N. meningitidis ADP-ribosylating toxin mutant protein (E111X).

XX

KW ADP-ribosylating toxin; immune response; mucosal adjuvant; gene therapy;  
KW vaccine; bacterial infection; immunostimulant; antibacterial; mutant;  
KW mutein.

XX

OS Neisseria meningitidis MC58.

OS Synthetic.

XX

FH Key Location/Qualifiers

FT Misc-difference 111

FT /note= "Wild-type Glu substituted with Xaa where Xaa  
FT corresponds to Ala, Gly, Lys, Asp, Ser"

XX

PN WO200279242-A2.

XX

PD 10-OCT-2002.

XX

PF 28-MAR-2002; 2002WO-IB002080.

XX

PR 30-MAR-2001; 2001GB-00008024.

XX

PA (CHIR-) CHIRON SPA.

XX

PI Masignani V, Pizza M, Rappuoli R;

XX

DR WPI; 2002-740936/80.

XX

PT New protein useful for manufacturing a medicament for raising an immune  
PT response or for treating or preventing bacterial infection, as a mucosal  
PT adjuvant, as a diagnostic reagent, or as a vaccine.

XX

PS Disclosure; Page; 62pp; English.

XX

CC The present invention relates to novel ADP-ribosylating bacterial toxins  
CC and polynucleotides encoding such proteins. Toxins of the invention or  
CC their mutants are useful in the manufacture of medicaments for raising an  
CC immune response in animals or for use as mucosal adjuvants. They are used  
CC as diagnostic reagents for detecting the presence of bacteria or  
CC antibodies raised against the bacteria. The compositions are used as  
CC medicaments (e.g. vaccine) or in the manufacture of medicaments, for  
CC treating or preventing bacterial infection such as those caused by  
CC Neisseria meningitidis, Streptomyces coelicolor, Mycoplasma pneumoniae,  
CC Salmonella typhimurium, Salmonella paratyphi or Streptococcus pyogenes.  
CC Sequences of the invention are also used in gene therapy. The present  
CC sequence is Neisseria meningitidis serogroup B ADP-ribosylating toxin  
CC truncated mutant protein. Note: This sequence is not shown in the  
CC specification but is derived from Neisseria meningitidis ADP-ribosylating  
CC toxin wild-type protein shown as SEQ ID NO: 1 in page 51 of the  
CC specification (AAE29372)

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SQ Sequence 145 AA;

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Query Match          99.2%;  Score 767;  DB 5;  Length 145;
Best Local Similarity 99.3%;  Pred.' No. 8.4e-82;
Matches 144;  Conservative 0;  Mismatches 1;  Indels 0;  Gaps 0;

Qy      1 MGNFLYRGISCQQDEQNNGQLKPKGNKAEVAIRYDGKFKYDGKATHGPSVKNVYAHQIE 60
        |||
Db      1 MGNFLYRGISCQQDEQNNGQLKPKGNKAEVAIRYDGKFKYDGKATHGPSVKNVYAHQIE 60
        |||

Qy      61 TGLYDGCYISTTTDKEIAKKFATSSGIENGYIYVLNRDLFGQYSIFEYEVEHPENPNEKE 120
        |||
Db      61 TGLYDGCYISTTTDKEIAKKFATSSGIENGYIYVLNRDLFGQYSIFEYEVXHPENPNEKE 120

Qy      121 VTIRAEDCGCIPEEVIIAKELIEIN 145
        |||
Db      121 VTIRAEDCGCIPEEVIIAKELIEIN 145

<!--EndFragment-->

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371 PCT date is 9/10/2002  
 Provisional 8/11/2002  
 UK in England 8/30/2002